

PERFORATION MECHANISM FOR A FOAM-IN-BAG CUSHION AND
METHOD OF USE

ABSTRACT

A perforation apparatus particularly useful for creating perforations in a foam-in-bag cushion and methods of using such apparatus are provided. The perforation apparatus is comprised of a frame, a main shaft mounted in the frame so as to be rotatable
5 about a central axis, at least one needle roller coupled to the main shaft such that rotation of the main shaft moves the needle roller through a predetermined arc of motion out of and into an operative position adjacent to and perforating a plastic film advancing past the needle roller, and an actuator coupled with the main shaft and operable to rotate the main shaft so as to move the needle roller. Optionally, the apparatus is further comprised
10 of at least one backup roller. Methods of preparing and perforating a foam-in bag cushion using the perforating apparatus are also provided.